

ANNA UNIVERSITY - 2007
B.E/B.TECH III SEMESTER DEGREE EXAMINATION
FIBRE SCIENCE
(TEXTILE TECHNOLOGY)

TIME-3HOUR
MARK-100

ANSWER ALL QUESTIONS

PART A (10 X 2 = 20)

1. Compare between wool and silk fibre with reference to its fibre specifications.
2. Compare between dry and wet spinning.
3. Give the longitudinal and cross-sectional appearance of cotton fibre.
4. Compare the chemical composition of jute with cotton.
5. Give the life cycle of silk worm.
6. Comment on the chemical composition of seccin and fibroin.
7. Comment on molecular weight of cotton and viscose fibres.
8. Compare the properties of viscose and polynosic fibres.
9. Give the specific gravity of PET Polyester, Nylon 6, PAN and PP fibres.
10. List the side products produced during the manufacturing of PET polyester.

1.

PART B (5 X 16 = 80)

11. Explain with reasons the various desirable properties of ideal textile fibres.
12. (a) Discuss an extraction of flux fibre from the plant.

Or

- (b) Discuss on physical and chemical properties of jute fibre.

13. (a) Explain the various stages involved in the production of spun silk yarns.

Or

- (b) Explain the methods used for production of clean wool.

14. (a) Explain the salient features involved in the production of viscose rayon.

Or

- (b) Elaborate on the variations involved in the production of different types of regenerated cellulosic fibres.

15. (a) Explain in detail the production of PET polyester fibre using a batch process.

Or

- (b) Explain the production of Nylon 6 fibre using a continuous process.